**ABSTRACT**

**TOPIC: Online Diagnostic Lab Reporting System**

**Introduction**

The system is an online diagnostic lab manager application that brings up various diagnosis working online. The Diagnostic Lab Reporting System can provide a value to its customers. It connects the users and lab in Internet space with inexpensive and affordable devices to access the relevant information. The Diagnostic Lab Reporting System is designed for any labs to replace their existing manual paper based system. These services are to be provided in an efficient, cost effective manner, with the goal of reducing the time and resources currently required for such tasks. The system is simple, robust and very easy to use technology, which can increase the efficiency of communication model among the customer base.

**Existing system**

In this existing Diagnostic Lab Reporting System, the reports are generated manually fitted by the employees of the organization. Existing system has greater tendency of having more errors as compared to the automation system. In existing Diagnostic Lab Reporting System, as the chances of errors are greater, thus the chances of getting information from the reports are more which will indirectly or directly affect the patients and their health only. Also this existing system will take more time for booking and report generation.

**Proposed System**

It is highly effective application for Diagnostics Center. It is Multi-user, Multi-tasking system. Effective, Flexible and Confirm Software. In this proposed Diagnostic Lab Reporting System, the program allows improve diagnosis program. Allow faster service. Easy to use and simple Graphical User Interface. It reduces the time delay of patients. Also this system generate reports through either email or print.

Here patients are first allowed to register on the site and also login using registered details. Once authorized with their deal with and contact information, the patient may now see a wide range of assessments performed by the lab along with their expenses. The system allows for different types of tests to be booked by patient. Now the system allows users to book any test needed and he can also edit their time slots. After successful booking the system will calculates costs as well the patient test is booked through online. After booking the lab technicians can collect samples, and generate test results. The doctors will check the test result and Generates report on that result. After successful testing the user now gets a notification of test result through an email or his/her lab account.

**User Modules**

**Admin:**

The admin is the owner of the site. Admin manages the lab and doctor. He/She can view and delete the doctor and patients details.

**Patient:**

The patient is the end user of the system. They can view and edit their own details. Patients can Book for test by selecting test time and date they need to conduct the test. Patient can download the test report from the site itself.

**Employee**

The employees are the users to manage patients. Employee can view appointments and can generate test result and send to the doctor.

**Doctor:**

They can view and edit their own profile. They can view test result and prepare test report.

**Functionality Module**

**Registration**

The users such as patients, employees and doctor have to register in the site by providing needed information.

**Booking**

The main functionality of Diagnostic lab reporting system is booking. Through this, the system provide an opportunity to patients for testing their samples on lab and he/she can view their result by this site.

**Payment**

Online bill generation

**Report Generation**

If the test is over the employer will generate the result for patient. And the doctor will generate report based on the result.